

## COMPOSITIONS AND METHODS FOR INDUCTION OF ACTIVE AUTOIMMUNITY

### Abstract

5           A recombinant first antigen, coupled with a foreign protein (such as  
immunoglobulin Fc from different species), can be used as a vaccine to induce active  
auto-immunity specifically through a T cell-dependent antibody response. The induced  
autoantibodies can recognize self-antigen *in vivo* and trigger immune responses to  
reduce or eliminate a target autologous antigen. Since there is evidence that the  
10   pathogenesis of some diseases, such as cancer, allergy, arthritis, atherosclerosis, graft  
rejection, or other inflammatory diseases, are caused by increased levels of certain  
autologous proteins, the instant compositions and methods provide a method of inducing  
autoantibodies to down-regulate the levels of a target autologous antigen or cells  
expressing the antigen to ameliorate diseases or disorders.

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